

VAIBHAV SHINGNE

STUDENT

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[Linkedin](#) | [Leetcode](#) | [Codechef](#) | [Geeksforgeeks](#) | [Github](#) | [Portfolio](#)

ABOUT ME

Software Engineering student with hands-on experience in JavaScript web development, Linux-based systems, Docker, cloud platforms, and automation, building scalable solutions across web, infrastructure, and monitoring systems.

SKILLS

Languages: JavaScript, C/C++, Python, Go, Java

Developer Tools & Platforms: Git/Github, Docker, GCP Console, Firebase, Kubernetes, Github Action

Core Concepts & Fundamentals: Data Structures & Algorithms , Operating Systems , Computer Network, Linux, Kernel Development, Object-Oriented Programming (OOP), DBMS

Frameworks & Database: REST APIs, Flask, React.js, MongoDB, Node.js

PROJECTS

Cloud-Native Deployment & Automation Pipeline (Python, Docker, Github Actions, Google Cloud Portal, FASTAPI)

- Designed containerized services using Docker for scalable deployment
- Implemented CI/CD automation with GitHub Actions
- Deployed APIs using FastAPI on Google Cloud
- Gained hands-on experience with Linux-based cloud infrastructure

AI-Powered Crime Risk Prediction and Heatmap System (Python, scikit-learn, Rest API, Flask, React.js)

- Built JavaScript-based web interface (React.js) with REST API integration
- Designed JSON-based interfaces between frontend and backend
- Implemented data visualization dashboards using Leaflet heatmaps

AI-Driven Drone Surveillance App (Python, YOLOv8, OpenCV, Kotlin, Android SDK, Firebase)

- Developed and deployed a Python-based YOLOv8 & OpenCV model on RasPi for real-time garbage detection on board.
- Integrated cloud syncing with Firebase to store detection data and enable seamless scalability.
- Built a Kotlin-based Android app delivering real-time alerts and navigation support for cleanup crews.

EXPERIENCE

Linux kernel Fall 2025, Linux Foundation | Mentorship

Sep 2025 - Nov 2025

- Debugged and analyzed Linux subsystems using C, Shell, and Git
- Collaborated in an open-source, distributed engineering environment
- Strengthened understanding of operating systems, tooling, and system-level debugging

AIML Lead, WCE MLSC

Aug 2024 - Present

- Coordinated AzureXplore by MLSC, consisting of Azure fundamentals and many more.
- Coordinated AI Nexus, which mainly focused on different AIML tools available on Azure.

EDUCATION

B.Tech in Electronics Engineering

Aug 2023 - May 2027

Walchand College of Engineering, Sangli

7.88 CGPA

CERTIFICATIONS

Data Structure and Algorithms- Self paced by GeeksforGeeks

LFS151 – Introduction to Cloud Infrastructure Technologies by The Linux Foundation

LFD103 – A Beginner's guide to Linux Kernel Development by The Linux Foundation

ACHIEVEMENTS

- Roboholic '25 Winner
- IEEE TechSangam '25 Finalist
- Codechef 3 Star (max 1793)
- Daily Coding Challenge Badge - September 2024, April to December 2025
- Leetcode 50, 100 and 200 days badge and Leetcode 75 badge